



24-BR-6010
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Boardman et al.

Serial No.: 09/735,009

Filed: December 12, 2000

For: SYSTEM AND METHODS OF
PRODUCING HYDROGEN USING A
NUCLEAR REACTOR

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: Art Unit: 3641
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: Examiner: R. Palabrica
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14/10
4/10/03
H/12/03

AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

In response to the Office Action dated February 3, 2003, please amend the above-identified patent application as follows.

IN THE CLAIMS

1. (thrice amended) A system for generating hydrogen comprising:
- feed water;
 - a liquid metal nuclear reactor having a non-radioactive secondary heat loop comprising a recirculated heat transfer medium;
 - a steam generator connected to said secondary heat loop, said heat transfer medium and said feed water passing through said steam generator, said steam generator capable of raising the temperature of said feed water;
 - a high temperature water cracking system, said feed water coupled to said water cracking system by a feed water input line; and
 - a topping heater, said topping heater capable of raising the temperature of said feed water, said feed water input line coupled in flow communication with said steam generator, said

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